IN THE
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TITLE: Customization of User Interface Presentation in an Internet Application User Interface

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Commissioner for Patents
Washington, D.C. 20231

Sir:

PRELIMINARY AMENDMENT

The captioned application is U.S. Serial No. 10/041,015, filed December 28, 2001.

Before action, please amend the captioned application as follows.

IN THE CLAIMS

Please cancel claims 1-3 without prejudice. Please add the following scannable version of new claims 4-88.

     1. (CANCELED)

     2. (CANCELED)

     3. (CANCELED)

We Claim:

1 4. (New) A customizable application system comprising:

2   an internet application system configured to support an internet application, the internet

3   application system including,

4   a) a user interface generator configured to generate an application user interface,

5   the application user interface including a customizable view all command

6   and configured as an interface between the internet application and a user,

7   and

8   b) a web application server configured to deliver the application user interface to

9   a client, the client configured to display the application user interface to

10   the user;

11 means for a user to specify data to customize the customizable view all command;

12 a data repository configured to store the data; and

13 means for preserving a state of the customizable view all command between one

14   generation of the application user interface and another generation of the

15   application user interface.

1 5. (New) The customizable application system of claim 4, wherein the customizable view all

2   command is configurable to specify a maximum number of rows to display in the

3   application user interface.

1 6. (New) The customizable application system of claim 4, wherein the user interface generator is

2   responsive to an identity of a user.

1   7. (New) The customizable application system of claim 4, wherein a state of the customizable

2   view all command is responsive to use of the application user interface in a specific

3   application component.

1   8. (New) A system for developing an application user interface associated with an internet

2   application comprising:

3   an integrated development environment configured for a developer to specify a user

4   interface element in the application user interface, the user interface element

5   having a customizable view all command;

6   an application designer configured to produce metadata characterizing the customizable

7   view all command; and

8   a data repository including a data record associated with the customizable view all

9   command, the data record being user modifiable and being accessible using the

10   identity of a user or the identity of a client.

1   9. (New) The system of claim 8, wherein the application designer is configured to associate the

2   user interface element with the internet application.

1   10. (New) The system of claim 8, wherein the customizable view all command is configurable to

2   specify a maximum number of rows to display in the application user interface.

1   11. (New) The system of claim 10, wherein the integrated development environment is further

2   configured to specify display of the customizable view all command in the user interface.

1   12. (New) The system of claim 11, wherein the customizable view all command is associated

2   with a table.

1   13. (New) The system of claim 11, wherein the user interface element includes multiple rows of

2   data.

1   14. (New) The system of claim 8, wherein a state of the customizable view all command is

2   configurable to persist between uses of the application user interface.

1   15. (New) The system of claim 8, wherein the metadata includes a query for accessing the data

2   record.

1   16. (New) The system of claim 8, wherein the metadata includes a pointer for accessing the data

2   record.

1   17. The system of claim 8, wherein the data record is user modifiable using a configuration

2   system.

1   18. (New) The system of claim 8, wherein the data record is user modifiable using a

2   personalization system.

1   19. (New) The system of claim 18, wherein the personalization system is integrated into the

2   internet application.

1   20. (New) A customizable application system comprising:

2   an internet application system configured to support an internet application;

3   an application user interface including a user interface element, the application user

4   interface configured as an interface between the internet application and a user,

5   the user interface element including a customizable view all command configured

6   for delivery to a client over a computer network;

7   metadata characterizing the customizable view all command; and

8   a data repository including a data record associated with the customizable view all

9   command, the data record being user modifiable and for storing configuration

10   data.

1   21. (New) The customizable application system of claim 20, wherein the client is configured to

2   display the application user interface using standard web browser protocols.

1   22. (New) The customizable application system of claim 20, wherein the client is configured to

2   display the application user interface using features of a web browser, the features not

3   requiring a browser add-on, plug-in, or extension.

1   23. (New) The customizable application system of claim 20, further including means for

2   generating the application user interface using the metadata.

1   24. (New) The customizable application system of claim 23, wherein the metadata includes a

2   reference to the data record.

1   25. (New) The customizable application system of claim 20, further including a personalization

2   system configured to modify the configuration data.

1   26. (New) The customizable application system of claim 25, wherein the personalization system

2   is included in the internet application.

1   27. (New) An internet application system comprising:

2   a user interface generator configured to generate an application user interface including a

3   user interface element, the application user interface being compatible with a

4   standard web browser and being generated in response to a request from a user,

5   the user interface element including a user customizable view all command, a

6   state of the customizable view all command being responsive to an identity of the

7   user;

8   a web application server configured to deliver the application user interface to a client;

9   and

10   an internet application accessible to the user through the application user interface.

1   28. (New) The internet application system of claim 27, wherein the user interface generator is

2   further configured to use metadata for characterizing the customizable view all command.

1   29. (New) The internet application system of claim 27, wherein the customizable view all

2   command includes selection of a maximum number of rows to display in a table in the

3   user interface.

1 30. (New) The internet application system of claim 27, wherein the user interface generator is

2 configured to access a user modifiable data record for characterizing the view all

3 command.

1 31. (New) The internet application system of claim 27, wherein the internet application includes

2 a configuration system configured to modify configuration data characterizing the view

3 all command.

1 32. (New) The internet application system of claim 27, wherein the client is a wireless system.

1 33. (New) An internet application comprising:

2 an application engine including a computer program configured to run using an internet

3 application system;

4 an application user interface including a user interface element with a user customizable

5 view all command, the application user interface configured for delivery to a

6 client and to operate as an interface between a user and the internet application;

7 a user modifiable data record stored in a location physically remote from the client, the

8 data record configurable for use by a user interface generator to generate the

9 application user interface, the data record further including configuration data to

10 characterize the user customizable view all command; and

11 metadata configurable for use by the user interface generator to access the user

12 modifiable data record.

1   34. (New) The internet application of claim 33, wherein the metadata is configurable to include

2   information for use by the user interface generator to access the user modifiable data

3   record using a query.

1   35. (New) The internet application of claim 33, wherein the user interface generator is responsive

2   to an identity of the client.

1   36. (New) The internet application of claim 33, wherein the user interface generator is responsive

2   to an identity of a user.

1   37. (New) The internet application of claim 33, further including a personalization system

2   configured to modify the user modifiable data record.

1   38. (New) An application user interface for accessing an internet application, the application user

2   interface being generated using metadata and being configured for display on a client

3   using a standard web browser, the metadata being configured to access a user modifiable

4   data record including configuration data characterizing a customizable view all

5   command, the application user interface including the customizable view all command.

1   39. (New) The application user interface of claim 38, wherein the data record accessed using the

2   metadata is dependant on an identity of a user of the application user interface.

1   40. (New) The application user interface of claim 38, wherein the configuration data

2   characterizing the customizable view all command is dependant on an identity of the

3   client.

1   41. (New) The application user interface of claim 38, wherein the customizable view all

2   command is configurable to specify a maximum number of rows to display in a table.

1   42. (New) The application user interface of claim 38, wherein the user modifiable data record is

2   used to preserve a state of the customizable view all command between a display of the

3   application user interface and a subsequent display of the application user interface.

1   43. (New) A customizable application system comprising:

2   an internet application system configured to support an internet application, the internet

3   application associated with metadata configured for generating an application user

4   interface, the internet application system including,

5   a) a web application server configured to deliver the application user

6   interface to a client, and

7   b) an application server configured to generate the application user

8   interface;

9   an application development system configured to generate the metadata, the metadata

10   being further configured to characterize a view all command included in

11   the application user interface;

12   a configuration system including a configuration engine and a configuration interface, the

13   configuration interface configured for a user to modify configuration data

14   characterizing the view all command; and

15   a data repository including a data record for storing the configuration data, the data

16   record being accessible using the metadata.

1   44. (New) A customizable application system comprising:

2   an internet application system configured to support an internet application, the internet

3   application associated with metadata configured for generating a plurality of

4   application user interfaces each having a view all command, the internet

5   application system including,

6   a) an application server configured to generate the application user

7   interface, and

8   b) a web application server configured to deliver the application user

9   interface to a client;

10   a personalization system including a personalization engine and a user profile interface,

11   the personalization system configured to modify a data record including

12   personalization data, the personalization data characterizing the view all

13   command in more than one of the plurality of application user interfaces; and

14   a data repository including the data record for storing the personalization data, the data

15   record being accessible using the metadata.

1   45. (New) The customizable application system of claim 44, wherein the view all command is

2   configurable to specify a maximum number of rows to display in a table.

1   46. (New) The customizable application system of claim 44, wherein the personalization data is

2   used to preserve a state of the view all command between two of the plurality of

3   application user interfaces.

1   47. (New) A method of developing an application user interface, the method comprising the

2   steps of:

3   including a customizable view all command in the application user interface, the

4   customizable view all command being associated with a data record, the data

5   record being stored in a data repository and holding user modifiable configuration

6   data, the data repository being physically remote from a client used to display the

7   application user interface;

8   generating metadata associated with the customizable view all command, the metadata

9   being for accessing the configuration data; and

10   storing the metadata.

1   48. (New) The method of claim 47, wherein the customizable view all command includes a user

2   alterable property specifying a maximum number of rows to include in the application

3   user interface.

1   49. (New) The method of claim 47, wherein a property of the customizable view all command is

2   configurable to persist between uses of the application user interface.

1   50 (New) The method of claim 47, wherein the application user interface is HTML based and

2   configured for display using a standard web browser.

1   51. (New) A method of customizing an application user interface, the method comprising the

2   steps of:

3   accessing a page definition, the page definition including metadata associated with a

4   customizable property of a view all command;

5   accessing a data record using the metadata, the data record being stored in a data

6   repository and being user modifiable, the data repository being physically remote

7   from a client used to display an application user interface;

8   accessing configuration data in the data record;

9   determining a value defining the customized property using the configuration data;

10   generating markup-language responsive to the determined value; and

11   including the generated markup-language in the application user interface.

1   52. (New) The method of claim 51, wherein the application user interface is an interface to an

2   internet application.

1   53. (New) The method of claim 51, wherein accessing a data record using the metadata is

2   responsive to an identity of a user.

1   54. (New) The method of claim 51, wherein the value defining the customized property

2   determines a maximum number of rows to display in the application user interface.

1   55. (New) The method of claim 51, wherein the value defining the customized property

2   determines a number of columns to display in the application user interface.

1   56. (New) A method of customizing a view all command in an application user interface, the

2   method comprising the steps of:

3   accessing a configuration system, the configuration system including a configuration

4   engine and a configuration interface;

5   selecting, using the configuration interface, a user interface element in an HTML based

6   application user interface, the user interface element including the customizable

7   view all command; and

8   specifying configuration data using the configuration interface, the configuration data

9   characterizing the view all command, and the configuration data being stored in a

10   data repository physically remote from a client used to view the application user

11   interface.

1   57. (New) The method of claim 56, wherein the configuration data specifies a maximum number

2   of rows to display in the application user interface.

1   58. (New) The method of claim 56, further including modifying the configuration data using a

2   personalization system.

1   59. (New) The method of claim 56, further including generating the application user interface in

2   response to a request from the client.

1   60. (New) The method of claim 56, further including displaying the application user interface on

2   the client using standard web browser protocols.

1   61. (New) The method of claim 56, wherein the application user interface is displayed without

2   requiring a browser add-on, plug-in, or extension.

1   62. (New) A method of customizing a view all command in an application user interface

2   configured to access an internet application, the method comprising the steps of:

3   accessing a configuration system, the configuration system including a configuration

4   engine and a configuration interface;

5   selecting, using the configuration interface, a customizable view all command in an

6   HTML based application user interface;

7   a user specifying configuration data using the configuration interface, the configuration

8   data characterizing the view all command in the application user interface;

9   saving the specified configuration data; and

10   generating the application user interface using the specified configuration data.

1   63. (New) The method of claim 62, further including displaying the application user interface

2   using standard web browser protocols.

1   64. (New) The method of claim 63, wherein a state of the customizable view all command

2   persists between a display of the application user interface and another display of the

3   application user interface.

1   65. (New) The method of claim 62, further including determining a maximum number of rows

2   generated in the application user interface, using the specified configuration data.

1   66. (New) A method of executing an internet application comprising the steps of:

2   receiving a request for a user interface from a client, the user interface including a user

3   interface element;

4   accessing a page definition, the page definition including metadata and defining the

5   requested user interface;

6   retrieving, using the metadata, a value characterizing a user customizable view all

7   command included in the user interface element, the value being stored in a data

8   repository physically remote from the client;

9   generating HTML responsive to the value;

10   including the generated HTML in the requested user interface; and

11   delivering the requested user interface to the client, the requested user interface being an

12   interface between a user and the internet application.

1   67. (New) The method of claim 66, wherein the value includes a maximum number of rows to

2   display when all rows are not displayed in the requested user interface.

1   68. (New) The method of claim 66, wherein the value is used to preserve a state of the

2   customizable view all command between at least two repetitions of the step of generating

3   HTML.

1   69. (New) The method of claim 66, wherein retrieving a value characterizing a customizable

2   view all command using the metadata includes execution of a query.

1　70. (New) The method of claim 66, further including displaying the application user interface

2　　　　using standard web browser protocols.

1　71. (New) The method of claim 66, further including identifying the user, and wherein the step

2　　　　of using the metadata to retrieved a value is responsive to the identity of the user.

1　72. (New) A method of generating at least one application user interface of a plurality of

2　　　　application user interfaces each including a customizable view all command, the method

3　　　　comprising the steps of:

4　　　　accessing a page definition, the page definition including metadata associated with the

5　　　　　　view all command;

6　　　　accessing the metadata to obtain a reference to a data record;

7　　　　reading configuration data from the data record using the reference, the data record being

8　　　　　　stored in a data repository and being user modifiable, the data repository being

9　　　　　　physically remote from a client used to display the application user interface, the

10　　　　　　configuration data characterizing the customizable view all command in the at

11　　　　　　least one of the plurality of application user interfaces and in an other of the

12　　　　　　plurality of application user interfaces;

13　　　　generating HTML responsive to the configuration data; and

14　　　　including the generated HTML in the application user interface.

1　73. (New) The method of claim 72, wherein the at least one of the plurality of application user

2　　　　interfaces is displayed to a user and the other of the plurality of application user

3　　　　interfaces is displayed to an other user.

1   74. (New) The method of claim 72, wherein the at least one of the plurality of application user

2   interfaces and the other of the plurality of application user interfaces are displayed to a

3   user.

1   75. (New) The method of claim 72, wherein the configuration data includes a maximum number

2   of rows to display in the application user interface.

1   76. (New) The method of claim 72, wherein the configuration data is used to preserve a state of

2   the customizable view all command between two executions of the step of generating

3   HTML.

1   77. (New) The method of claim 72, further including delivering, using a web application server,

2   the application user interface to the client.

3   78. (New) The method of claim 72, wherein reading configuration data from the data record

4   using the reference includes execution of a query.

1   79. (New) The method of claim 72, further including displaying the application user interface

2   using standard web browser protocols.

1   80. (New) The method of claim 72, wherein reading configuration data from the data record

2   using the reference includes using an identity of a user.

1   81. (New) A method of generating a customized application user interface configured for

2   delivery from a server to a client, the method comprising the steps of:

3   receiving, at a server, a request for an application user interface from a client;

4   identifying the requester of the application user interface;

5   accessing a page definition, the page definition including metadata and defining the

6   requested application user interface;

7   retrieving a value relating to a customizable view all command, using the metadata and

8   the identity of the requester, the value being stored in a data repository physically

9   remote from the client;

10   generating HTML characterizing the view all command, using the value;

11   including the generated HTML in the requested application user interface; and

12   delivering the requested application user interface from the server to the client.

1   82. (New) The method of claim 81, wherein the value includes a maximum number of rows to

2   display in the application user interface.

1   83. (New) The method of claim 81, wherein the value is used to preserve a state of the view all

2   command between one generation and another generation of the application user

3   interface.

1   84. (New) The method of claim 81, further including displaying the application user interface

2   using standard web browser protocols.

1   85. (New) The method of claim 81, wherein the value is configuration data.

1   86. (New) A computer readable medium including an internet application, the internet

2   application comprising:

3   metadata defining an application user interface, the application user interface including a

4   user interface element with a user customizable view all command, the

5   application user interface configured for delivery to a client and configured to

6   operate as an interface between a user and the internet application;

7   a user interface generator configured to generate the application user interface using a

8   user modifiable data record stored in a location physically remote from the client,

9   the user modifiable data record configurable to characterize the user customizable

10   view all command; and

11   a configuration system configured for a user to modify the user modifiable data record.

1   87. (New) A computer readable medium including an internet application, the internet

2   application comprising:

3   an application designer configured to develop an application user interface, the

4   application user interface including a user interface element with a user

5   customizable view all command, the application user interface configured for

6   delivery to a client and configured to operate as an interface between a user and

7   the internet application;

8   a user interface generator configured to generate the application user interface using a

9   user modifiable data record stored in a location physically remote from the client,

10   the user modifiable data record configurable to characterize the customizable

11   view all command; and

12   a configuration system configured for a user to modify the user modifiable data record.

1   88. (New) An application execution system comprising:

2   means for supporting an internet application;

3   means for generating an application user interface using a user modifiable data record

4   configured to store data characterizing a user customizable view all command;

5   and

6   means for providing the application user interface to a user, the application user interface

7   including a user interface element, the application user interface configured as an

8   interface between the internet application and the user, the user interface element

9   including the user customizable view all command, the user interface element

10   configured for delivery to a client over a computer network.

REMARKS

The present application is U.S. Patent Application Serial No. 10/041,015 (hereinafter the "'015 Application"). This Preliminary Amendment is being filed prior to receipt of the first Office Action. The '015 Application contained claims 1-3, which are canceled by this amendment without prejudice. In addition, this Preliminary Amendment adds new claims 4-88. Therefore, claims 4-88 are presented for consideration. No new matter has been added by these amendments. All the pending claims comply with all the requirements of 35 U.S.C. Accordingly, Applicant requests examination and allowance of all pending claims.

The Examiner is respectfully requested to enter this Amendment and to examine the pending claims. The Examiner is respectfully urged to consider the claimed invention at the earliest time possible and issue a favorable action indicating the application is in condition for allowance. If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone Applicant's undersigned representative at the number given below.

Respectfully submitted,

Alan Ballard et al.

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